

## CLAIMS :

1. An electrophoresis apparatus in which a sample marked by fluorescent material is separated in 5 capillaries through electrophoresis by making use of capillary array formed by a plurality of capillaries, fluorescence emission is caused by irradiation light to the sample and through detection of the fluorescence the sample is analyzed, comprising a 10 sample plate assembly including two sets of a tray at a sample supply portion of the capillary array, an adapter for the tray, a sample plate mounted on the adapter, a septer mounted on the sample plate and a septer cover mounted on the septer, wherein two sample 15 plates include respectively different number of wells, and the tray, the adapter, the septer and the septer holder in each set being adapted to the corresponding different sample plate.
- 20 2. An electrophoresis apparatus according to claim 1, wherein the tray includes a sensor for discriminating the number of wells in the adapter.
- 25 3. A sample plate assembly comprising two sets of a tray at a sample supply portion of a capillary array, an adapter for the tray, a sample plate mounted on the adapter, a septer mounted on the sample plate and a

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septer cover mounted on the septer, wherein two sample plates include respectively different number of wells, and the tray, the adapter, the septer and the septer holder in each set being adapted to the corresponding  
5 different sample plate.

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